

FIG. 1

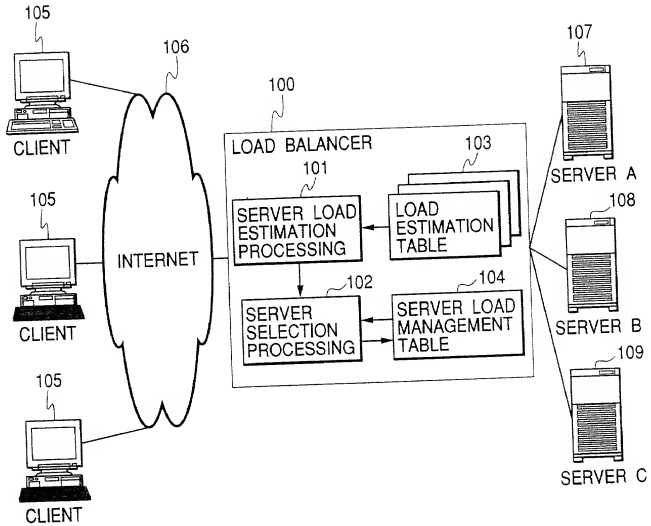


FIG. 2

201
 GET <http://www.sdl.hitachi.co.jp/index.html> HTTP/1.0
 User-agent: Mozilla/3.0
 Accept: text/html, image/gif, image/jpeg

202

FIG. 3

METHOD LOAD EVALUATION TABLE

METHOD	LOAD EVALUATION/VALUE L1		
	SERVER A (L1A)	SERVER B (L1B)	SERVER C (L1C)
GET	6	4	2
HEAD	3	2	1
POST	9	6	3
PUT	6	4	2
DELETE	9	6	3
TRACE	3	2	1
OPTIONS	3	2	1

FIG. 4

CONTENTS DATA TABLE

CONTENTS	SIZE (BYTES)	PROBABILITY THAT IT WILL BE IN THE CLIENT-SIDE CACHE (%)
a.html	10	90
b.html	31	90
c.html	599	70

a.gif	25	50
b.gif	4	30
c.xls	1,008	5
d.pdf	19,283	5

FIG. 5

DATA SIZE LOAD EVALUATION TABLE

SIZE (BYTES)	LOAD EVALUATION/VALUE L2		
	SERVER A (L2A)	SERVER B (L2B)	SERVER C (L2C)
1~50	3	2	1
50~100	6	4	2
100~200	9	6	3

FIG. 6DYNAMIC CONTENTS GENERATION PROGRAM
LOAD EVALUATION TABLE

PROGRAM	LOAD EVALUATION VALUE L3			AVERAGE DATA SIZE (BYTES)
	SERVER A (L3A)	SERVER B (L3B)	SERVER C (L3C)	
SEARCH1			20	500
SEARCH2			10	876
CALC1			1	72

FIG. 7

WEIGHT TABLE

LOAD EVALUATION VALUE L	WEIGHT W
L1	w1
L2	w2
L3	w3

FIG. 8

SERVER LOAD MANAGEMENT TABLE

SERVER	LOAD STATUS
A	
B	
C	

FIG. 9

(SERVER LOAD ESTIMATION PROCESSING)

101

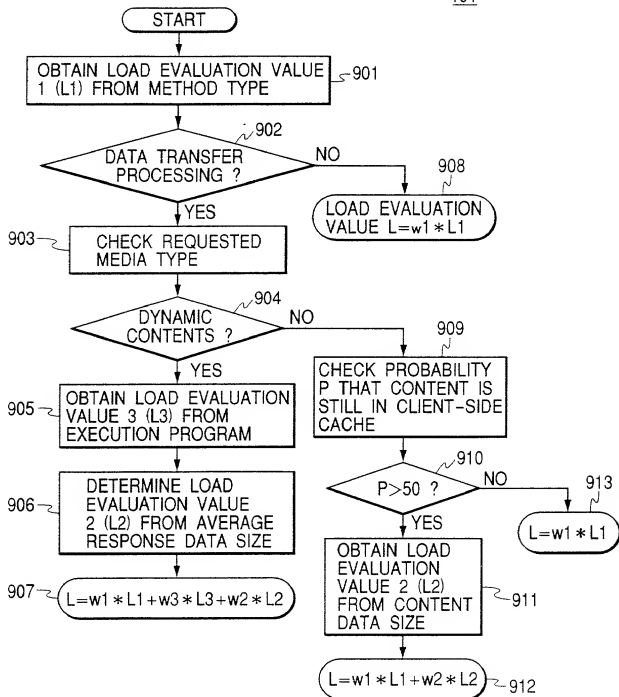


FIG. 10 (SERVER SELECTION PROCESSING) 102

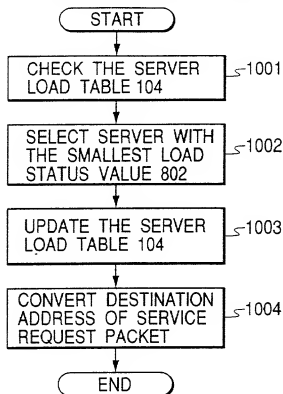


FIG. 11

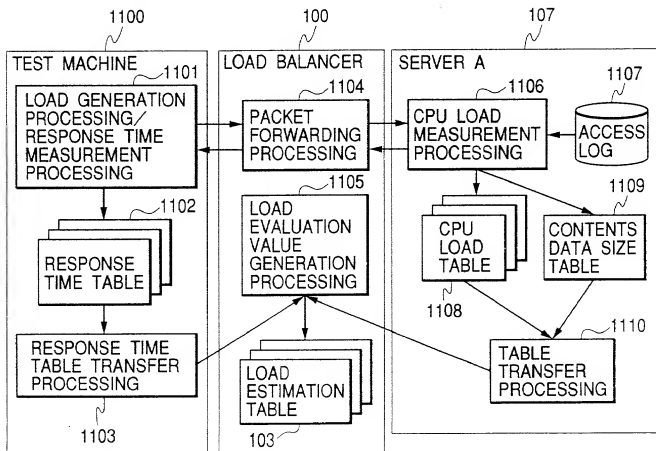


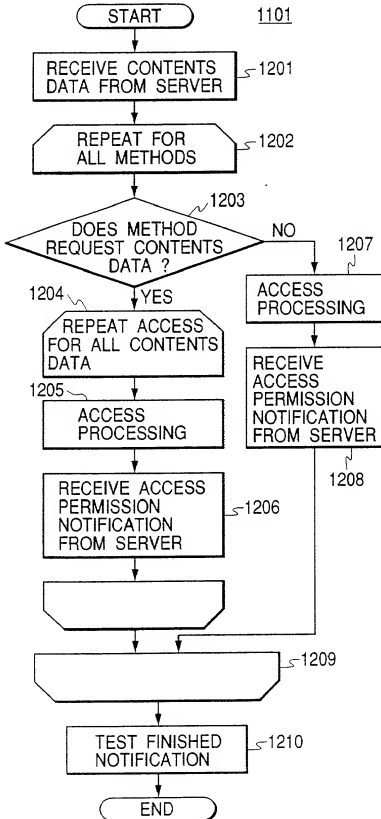
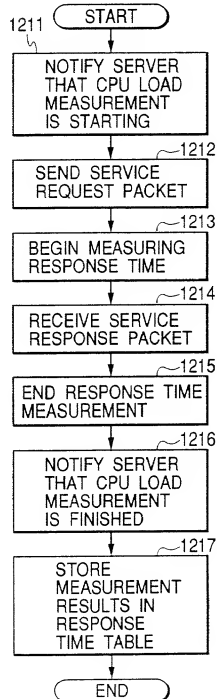
FIG. 12A(LOAD GENERATION PROCESSING/
RESPONSE TIME MEASUREMENT PROCESSING)**FIG. 12B**(ACCESS PROCESSING)
1205, 1207

FIG. 13

〈CPU LOAD MEASUREMENT PROCESSING〉

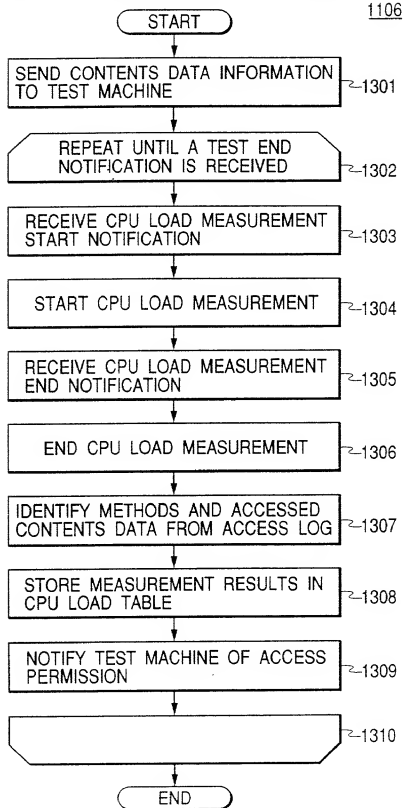


FIG. 14RESPONSE TIME TABLE
(METHOD TABLE)

METHOD	RESPONSE TIME
GET	
HEAD	
POST	
PUT	
DELETE	
TRACE	
OPTIONS	

FIG. 15RESPONSE TIME TABLE
(METHOD TABLE)

METHOD	RESPONSE TIME
a.html	
b.html	
c.html	

a.gif	
b.gif	
c.xls	
d.pdf	

FIG. 16RESPONSE TIME TABLE
(DYNAMIC CONTENTS GENERATION PROGRAM TABLE)

PROGRAM	RESPONSE TIME
SEARCH1	
SEARCH2	
CALC1	

CPU LOAD TABLE
(METHOD TABLE)

1701 1702 1700

CPU LOAD TABLE
(DYNAMIC CONTENTS GENERATION PROGRAM TABLE)

1801 1802 1803 1800

CONTENTS DATA SIZE TABLE

1901	1902	1109
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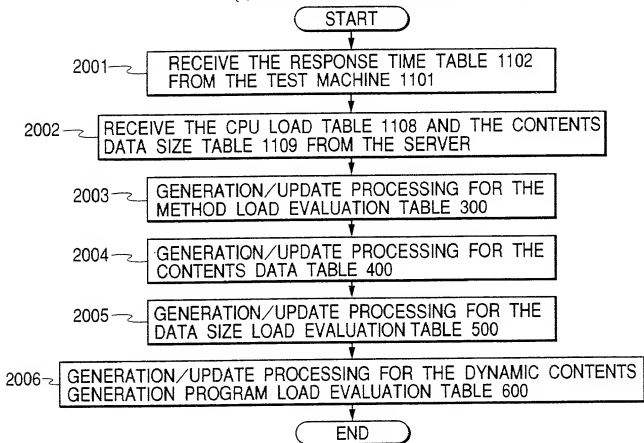
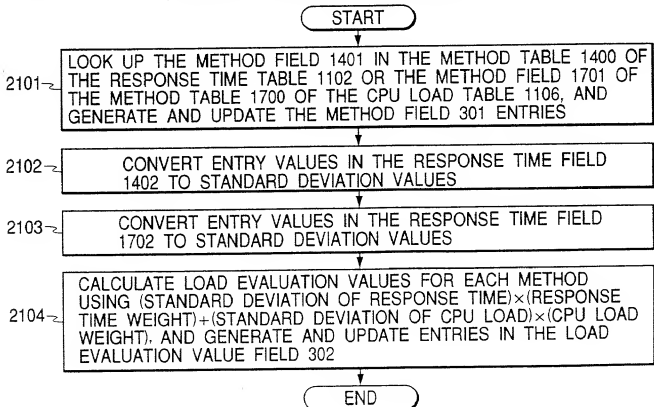
FIG. 20(LOAD EVALUATION VALUE
GENERATION PROCESSING) 1105**FIG. 21** (GENERATION/UPDATE PROCESSING FOR THE
METHOD LOAD EVALUATION TABLE 300)

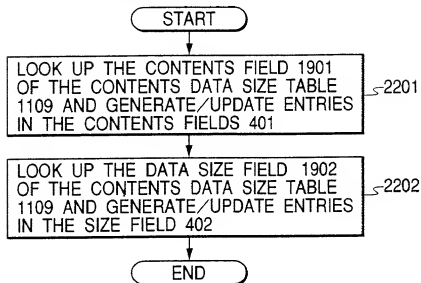
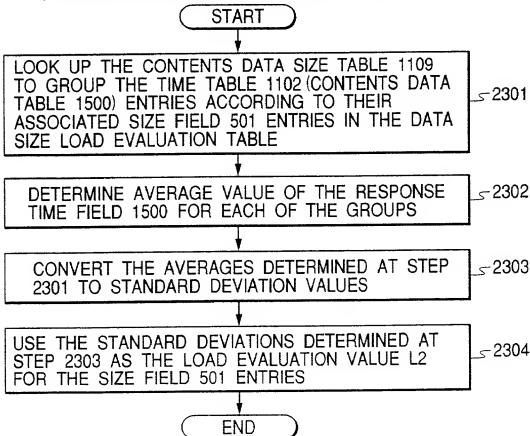
FIG. 22(CONTENTS DATA TABLE 400 GENERATION
/UPDATE PROCESSING 2004)**FIG. 23**(DATA SIZE LOAD EVALUATION TABLE 500
GENERATION/UPDATE PROCESSING 2005)

FIG. 24

(DYNAMIC CONTENTS GENERATION PROGRAM LOAD EVALUATION)
 (TABLE 600 GENERATION / UPDATE PROCESSING 2006)

